

# TRANSFLECTIVE LIQUID CRYSTAL DISPLAY

## Abstract

5 A transflective liquid crystal display comprises a top plate comprising a transparent  
electrode; a bottom plate bonded to the bottom plate, the bottom plate comprising transflective  
electrodes of aluminum nitride; a liquid crystal layer interposed between the top plate and the  
bottom plate; and a light source behind the bottom plate. The transflective electrodes reflect  
incident ambient light and transmit light emitted by the light source. In the liquid crystal  
display according to the present invention, the transflective electrodes of aluminum nitride  
replace conventional transparent pixel electrodes such that an image is generated by the  
transflective liquid crystal display when either ambient light is incident on the surface of the  
top plate or when light is generated by the light source.

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